

ABSTRACT OF THE DISCLOSURE

An automated method and device for analyzing biological samples such as substances containing cellular material in which at least one jetting device is activated to dispense a volume of a potential pharmaceutically active agent into contact with a defined volume of the biological sample. Data pertaining to changes detected in the defined volume is captured and analyzed. The potential pharmaceutically active agent or multiple agents are contained in a cartridge removably insertable in the device employed. Typically, the volume of and arrangement of potentially pharmaceutically active agent can be varied over multiple sample volumes to provide arrayed or factorially derived analysis.